PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC CONTROL SIGNAL AT MD 450 (ANNAPOLIS ROAD) AND FORBES BLVD. IN PRINCE GEORGES COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION IS TO BE MODIFIED TO OPERATE IN A NEMA SIX PHASE, FULLY TRAFFIC-ACTUATED MODE, THERE WILL BE EXCLUSIVE/PERMISSIVE LEFT TURNS ON THE MD 450 APPROACHES. THE THROUGH MOVEMENTS ON MD 450 WILL OPERATE CONCURRENTLY. THE THROUGH MOVEMENTS ON MD 193 WILL OPERATE CONCURRENTLY.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND CABINET WILL BE UTILIZED.

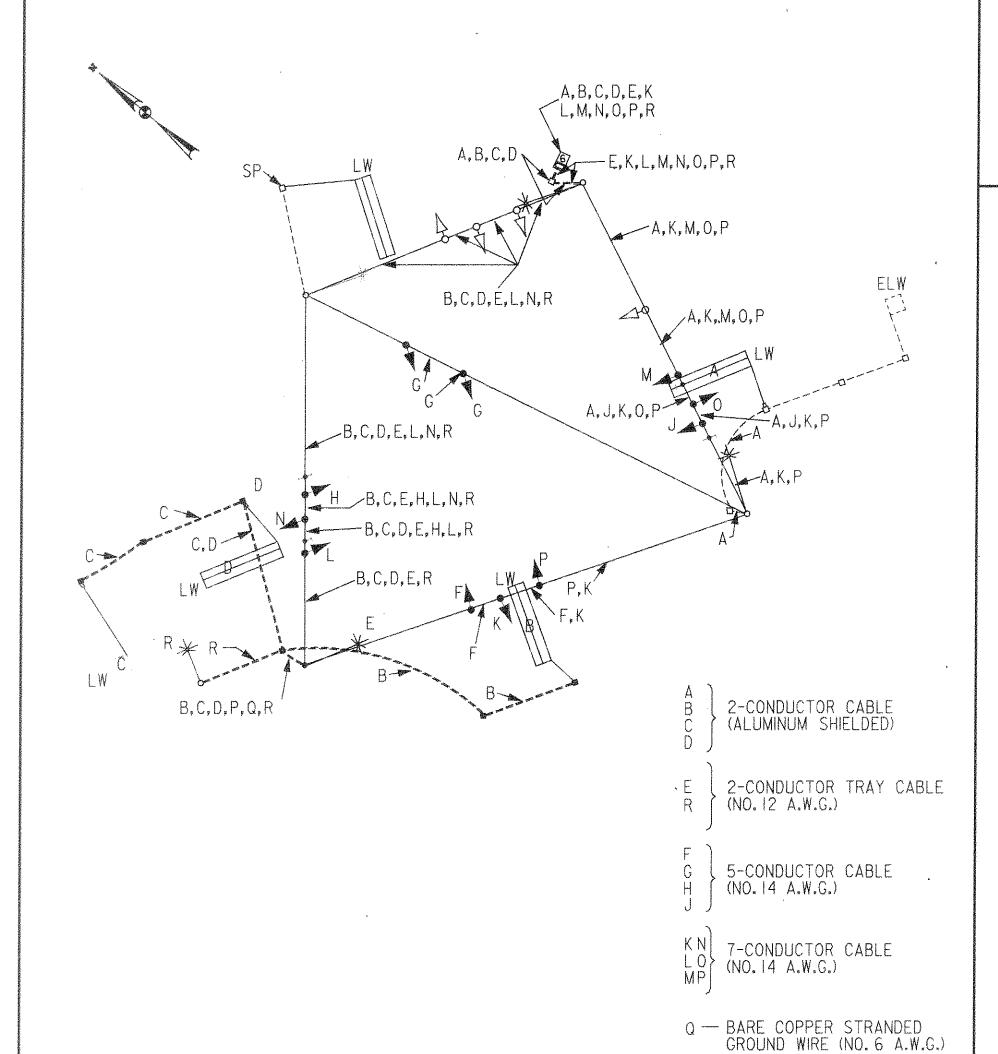
SPECIAL NOTE

72 HOURS PRIOR TO ANY WORK ON THE TRAFFIC SIGNALS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 TRAFFIC SECTION REPRESENTATIVE, MR. RICHARD BUETTNER (301-513-7316) AND THE SIGNAL OPERATIONS SUPERVISOR, MR. EDWARD RODENHIZER (410-787-7652).

FORBES BLVD. TO THE NORTH WILL BE CONSTRUCTED WHILE UNDER TRAFFIC. THIS MAY REQUIRE THE RELOCATION OF SIGNAL HEADS, NEW LOOP DETECTORS AND STOP LINE DURING PHASE III. THESE MODIFICATIONS WILL BE AS DIRECTED BY THE ENGINEER AND THE OFFICE OF TRAFFIC AND SAFETY.

ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UNDERGROUND AND OVERHEAD UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.

WIRING DIAGRAM



LW — LOOP WIRE (NO.14 A.W.G.) IN FLEXIBLE TUBING

ELW — EXISTING LOOP WIRE

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
960015	814	5 EA.	12 IN. I WAY 3 SECTION (R,Y,G) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
960020	814	2 EA,	12 IN. I WAY 5 SECTION (R, Y, G, YA, GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARWARE AND TUNNEL VISORS
900000	814	2 EA.	8 IN./12 IN.I WAY 5 SECTION (8" R,Y,G - 12" YA,GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS

PHASE DIAGRAM

	Ì	2	3	4	5	6		8	9	10		12	
		R Y S		R Y G			R	E	(E)>(G)	(P)(P)	(R) (R) (S) (G)	(F)(G)	
PHASE + 5	R G-	₹ 4 -G	R	R ≪ -G—	4 −G	R	R	R	R	R	R	R	A [
1 + 5 CHANGE TO	PHASE I	+ 6, P	HASE 2	+ 5 0	R PHASE	2 + 6)						
PHASE + 6	G-G-	G-G	G	R	R	R	R	R	R	R	R	R	
I CHANGE	G-Y-	G Y	G	R	R	R	R	R	R	R	R	R	
PHASE 2 + 5	IR	R	R	Ğ 4 -G—	4 −G—	G	R	R	R	R	R	R	4
5 CHANGE	R	R	R	G Y-Y-	Ğ 4 −Y	G	R	R	R	R	R	R	*
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R	4
2 + 6 CHANGE	TY	Y	Y	Y	Y	Y	R	R	R	R	R	R	
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	G	4
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	*
FLASHING OPERATION	F/Y	F	F/Y	FY	F/Y	F/Y	F/R	FR	F R	F / R	F/R	F R	+ 4

EQUIPMENT LIST "B"

	HEN NO. ST		FED. AID PROJ. NO.	SHEET NO.	TOTAL SHELTS	
¢	3 M	D SEE	TITLE HEET	350	465	

B. EQUIPMÊNT	ТО	BE FURNISHED	AND/OR	INSTALLED	ВҮ	THE	CONTRACTOR	
							•	

٠	CATEGORY CODE NO.	SPEC. SECTION	QUAN	TITY	DESCRIPTION
	114210	104	? 250	L.F.	6 IN. YELLOW REMOVABLE PREFORMED PAVEMENT MARKING TAPE
	H4245	104	97		24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
• .	203030	205		C.Y.	TEST PIT EXCAVATION
	801004	801	4.65	C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
	802501	810	, 12	۔ ا	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
	805125	805	385	ء آه	FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
	805160	805	25	LaF	FURNISH AND INSTALL I IN. LIQUID-TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
	811001	811	. 6	EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
	837001	804	-Maryon	EA.	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
	860015	814	5	EA.	INSTALL 12 IN. I WAY 3 SECTION (R, Y, G) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
	860020	814	2	EA.	INSTALL 12 IN. I WAY 5 SECTION (R,Y,G,YA,GA) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
	860265	814		EA.	RELOCATE EXISTING SIGNAL HEAD
	861104	810	2105	L _z F _s	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
	861107	810	115	a a	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
	861108	810	1420		FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
	861116	810	825		FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 *A.W.G.)
	862101	810	1870		FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 A.W.G.)
	862102	815	526		FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
	866104	818	1	EA.	FURNISH AND INSTALL 20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
	869101	819	293	9 K	FURNISH AND INSTALL STEEL SPAN WIRE - 1/4 IN. DIAMETER
	862102	819	293		FURNISH AND INSTALL STEEL SPAN WIRE - 3/8 IN. DIAMETER
4	800000	805	95		FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
	800000	813	4	EA.	RELOCATE EXISTING OVERHEAD SIGN
	800000	814	2	EA:	INSTALL 8N./12 IN. I WAY 5 SECTION (8"R,Y,G - 12"YA,GA) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
	800000	806		EA.	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE WITH PHOTO-CELL
	800000	818	- The state of the	EA.	FÜRNISH AND INSTALL 12 IN. X 32 FT. STRAIN POLE (2-PLY)
	800000	XXX	LUMP	SUM	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

TEMPORARY SIGNAL PHASE III

DWG. NO. TS-4

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 (ANNAPOLIS ROAD) AT FORBES BLVD.

erika ya u ayakkarekin zaweziki orozzania osobel zawezi Masayoruwen kisa esaweza zawezi di Guanayo a azaka ki	LOG MILE NO. 16		8	- 96
S. BLOSS	N/A			
T. HANNAN	N/A			
NONE	PRINCE GEORGES	IS-3600-X3-CI	350	465

THE WILSON T. BALLARD CO. CONSULTING ENGINEERS OWINGS MILLS, MARYLAND

AUGUST 1996 - WTB MODIFY EXISTING SIGNAL

SHA NO. PG9005171